**Github:**

* Github.com/AnthonyYos/IoT
* github.com/aaackc
* github.com/s0720bae
* github.com/Alshaikh1abbas

**Video:**

<https://youtu.be/ogE2FMSQbRs>

**Introduction:**

The goal of ICP4 was to design android application to control led light on and off via smartphone using MIT innovatory website also we had to connect the led light on Arduino part to it.

**Approaches/ Methods:**

* First, we needed to build our app using MIT website
* Second, we had to connect the LED light and the Bluetooth with Arduino
* Third, we created a connection via Bluetooth between the Arduino.
* We changed nothing in the codes on Arduino for the led and Bluetooth to work.

**Workflow:**

First we connected both the LED LIGHT and Bluetooth device to the circuit. Also, started to build our app using MIT website then we download it to one of our smartphones. We had some difficulty identify our Bluetooth to work and controlling led light, we had to disconnect the pin0 and reconnected again to make it work, but we were missing library code also to make sure that we can run the app. Eventually we were able to complete the task.

**Circuit Diagram:**

**Parameters:**

* First, build phone app using MIT website
* Second, connect the LED light and the Bluetooth with Arduino using wires
* Third, created a connection via Bluetooth between the Arduino.
* Run the code to work as should.

**Evaluation & Discussion:**

Each step we followed worked as should, but last step was hard little bite we couldn’t connect smartphone with our Bluetooth device, we run through deferent methods but none of them were working fine, indeed we could achieve our goals by switching with other phone then we were able to control the light ON and OFF

**Conclusion:**

We finally were able to do all assignments as defining Bluetooth and LED light and make it blink and controlled it also we learned how to design simple application for phone with MIT website. The hardest part was connecting Bluetooth with phone only. The most important thing in this lecture that we learned how build first android app and run it.